

## REMARKS

Claims 1, 2, 4-6, 8-25, 27, 29, 31-36, 38-39, 42, and 45-46 are currently amended. Claims 40-41, 43-44, and 47 are cancelled. Applicant respectively traverses the rejections.

### 1. Specification

The disclosure is objected to at pages 12 and 14. The specification is currently amended.

### 2. The Boehlke Reference<sup>1</sup>

Boehlke discloses a "high resolution image 10 formed by a set of N horizontal lines of pixels 12 having H pixels per line."<sup>2</sup> A matrix has "pixel data values X(n, h)."<sup>3</sup> An adder 40a has "a count limit of N," and "adds an input decimation ratio M/N to the output C(n) of register 40b and supplies the result to the input of register 40b."<sup>4</sup> According to Boehlke, "we define 'M' as the difference between N and the number of lines P in the low resolution image; M=N-P." The "adder 40a overflows upon counting to N, and generates the overflow signal OF(n+1)."<sup>5</sup>

### 3. Notation

Differences in notation between Boehlke and the present application are noted. Boehlke uses N and P, respectively, to define the number of lines in high and low resolution images. Boehlke also uses M, which is N-P. The Boehlke decimation ratio is M/N or (N-P)/M. In contrast, the present disclosure uses N and M to define a scale factor: M/N. The present disclosure also uses a term "INC," which is the difference N-M,<sup>6</sup> but does not use P. As summarized below, the uses of N, M, and N/M in Boehlke and the present application are not equivalent.

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<sup>1</sup> U.S. Pat. No. 5,862,268.

<sup>2</sup> '268, column 4, lines 43-45.

<sup>3</sup> '268, column 5, lines 34-35.

<sup>4</sup> '268, column 6, lines 32-35.

<sup>5</sup> '268, column 6, lines 42-44.

<sup>6</sup> Paragraph [0037].

<u>Term</u>	<u>Boehlke</u>	<u>Present Application</u>
N	lines in high resolution image	denominator of scale factor
P	lines in low resolution image	not used
M	N-P	numerator of scale factor
INC	not used	N-M
N/M	decimation ratio	scale factor

#### 4. Claims 1, 12, and 24

Claims 1, 12, and 24 stand rejected under 35 U.S.C. §102 (b) as being anticipated by Boehlke. Amended claims 1, 12, and 24 recite that the sequence of image data to be downsampled has R pixels and corresponds with one dimension of a rectangular array of image data. The amended claims clarify that N is less than the number R of pixels in the sequence. Boehlke does not disclose a method of sampling or a sampling circuit that samples (N-M)+/-1 pixels for every N pixels of a sequence of R pixels where N is less than R. The Boehlke adder 40a, in contrast, overflows upon counting up to the number of lines in a high resolution image. Accordingly, amended claims 1, 12, and 24 are not anticipated.

#### 4. Claims 2-11, 13-23, and 25-34

Claims 2-11 depend from claim 1, claims 13-23 depend from claim 12, and amended claims 25-34 depend from claim 24. These claims are not anticipated for the same reason that the respective independent claims are not anticipated. In addition, claims 4 and 27 recite that "said count sequence is incremented in steps of N-M," and claim 16 recites that "said n-bit adder counts in increments of N-M." Boehlke does not disclose an increment of N-M.

#### 5. Claims rejected under 35 U.S.C. §103 (a)

The claims rejected under 35 U.S.C. §103 (a) combine Boehlke with another reference. As described above, Boehlke does not disclose every element of independent claims 1,12, and 24. Similarly, Boehlke does not disclose every

element of independent claims 35. Accordingly, the rejection of these claims is improper.

Conclusion

Claims 1-39, 42, and 45-46 are in condition for allowance. Applicant respectively requests that claims be allowed, and this application be passed to issue. If the Examiner feels that an interview would be helpful he is respectfully invited to contact the applicant's attorney, Richard Wilhelm (48,786) at 503-635-1187.

Respectfully submitted,

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